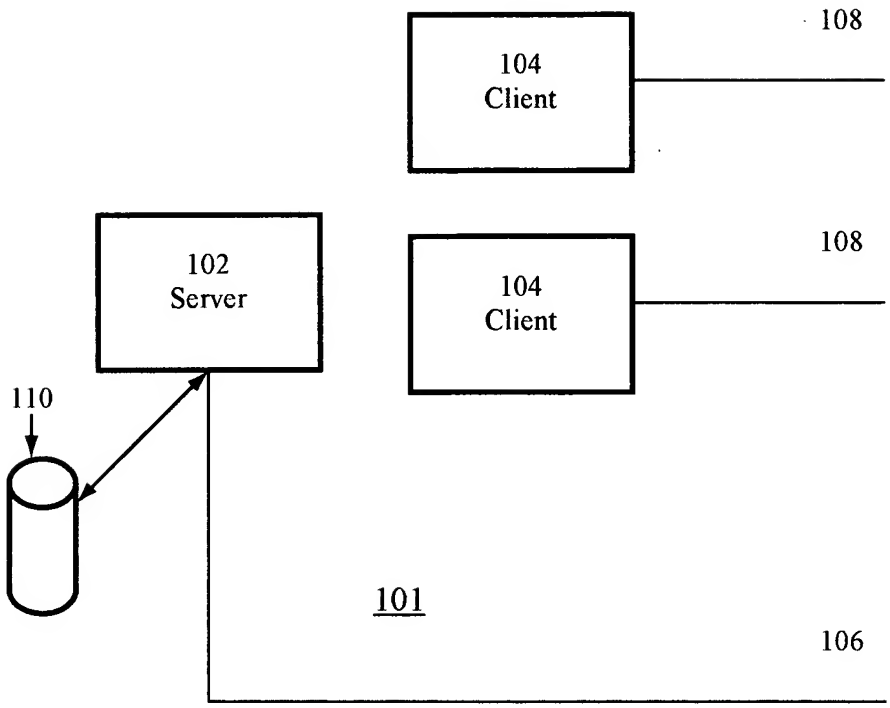


FIG 1

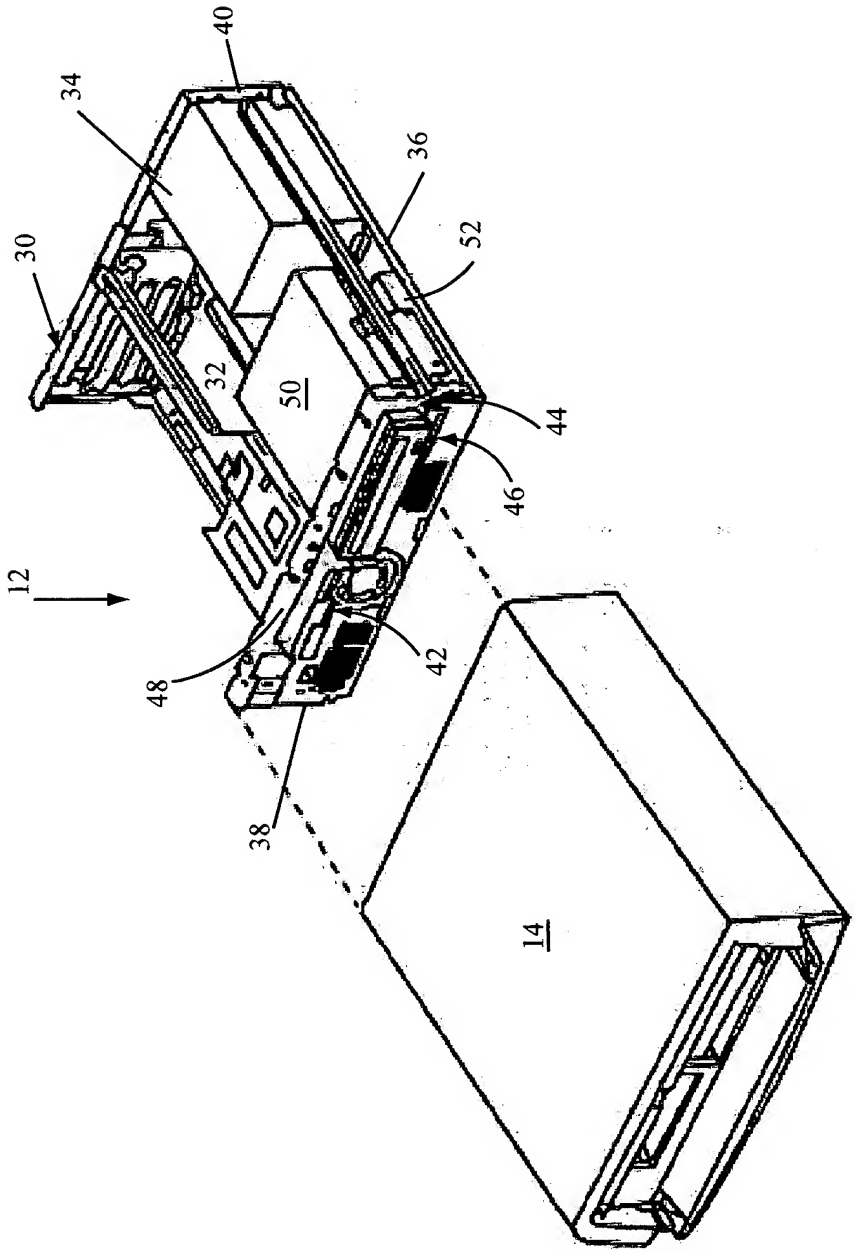


FIG 2

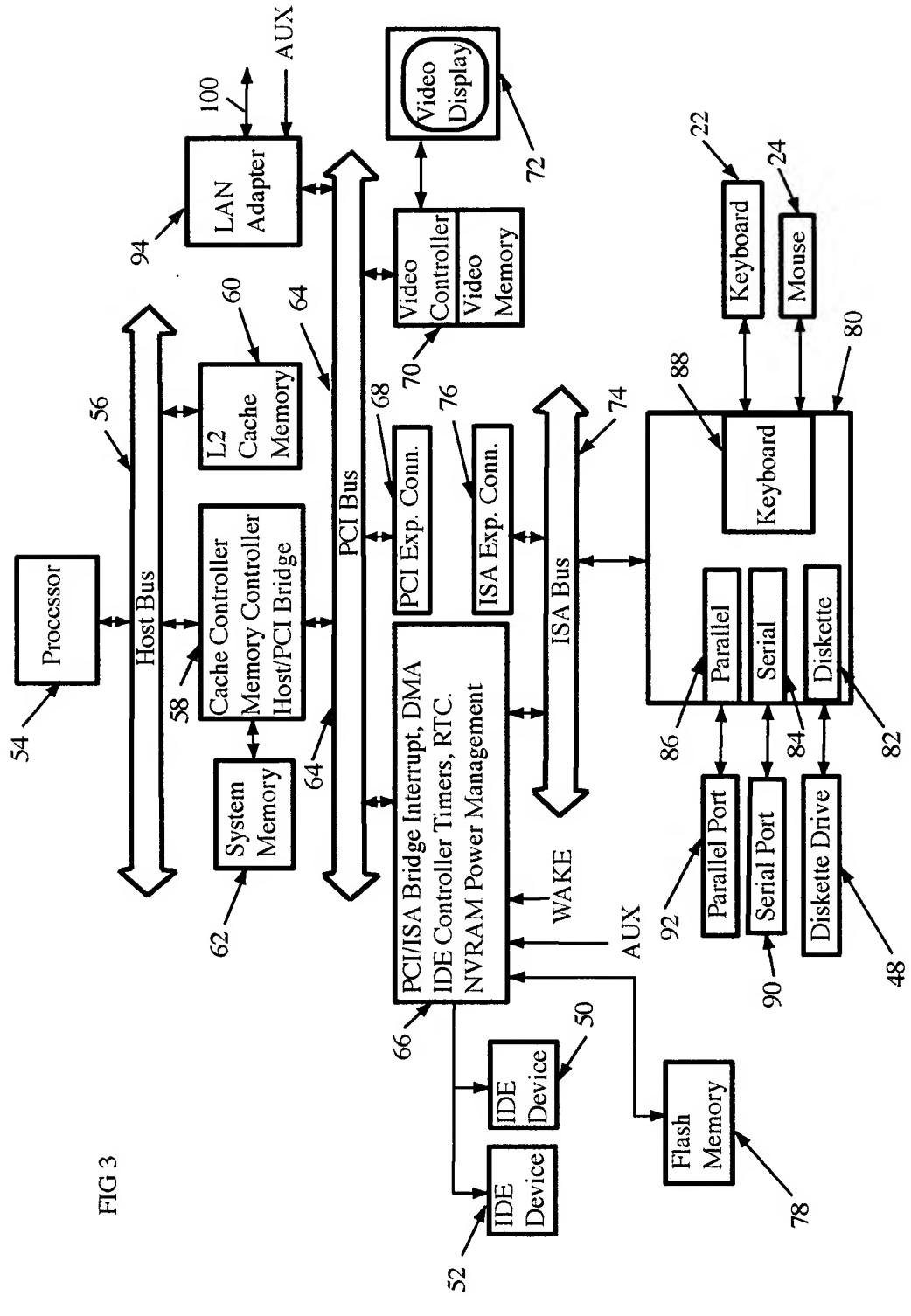
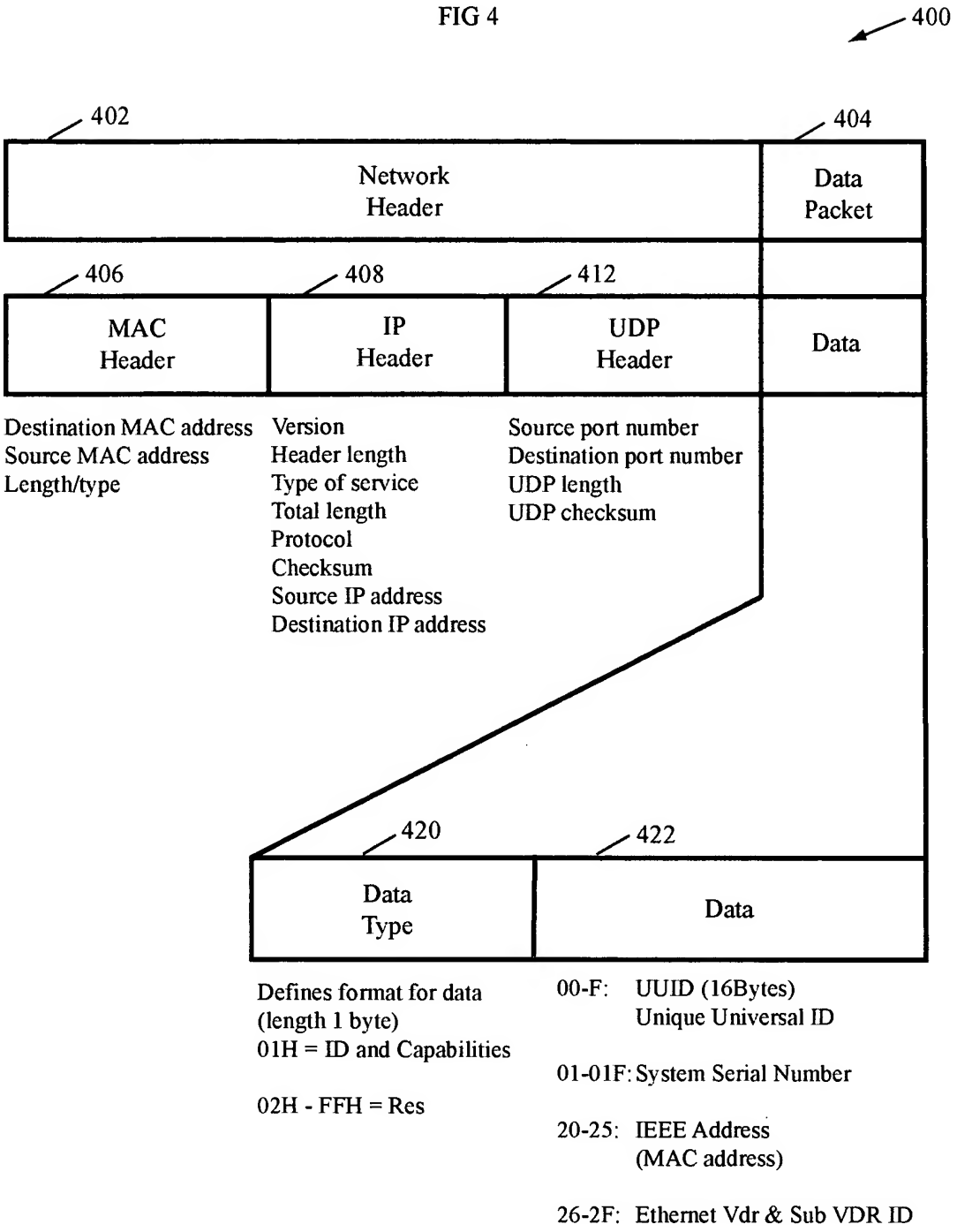

Processor
54
Host Bus
56
Cache Controller
Memory Controller
Host/PCI Bridge
58
L2
Cache
Memory
60
System
Memory
62
64
PCI Bus
LAN
Adapter
94
100
AUX
Video
Controller
Video
Memory
70
Video
Display
72
68
PCI Exp. Conn.
76
ISA Exp. Conn.
74
ISA Bus
PCI/ISA Bridge Interrupt, DMA
IDE Controller Timers, RTC.
NVRAM Power Management
66
WAKE
AUX
IDE
Device
50
IDE
Device
52
Flash
Memory
78
Keyboard
88
Keyboard
22
Mouse
24
80
Parallel
Serial
Diskette
86
84
82
Parallel Port
Serial Port
Diskette Drive
92
90
48

FIG 3

FIG 4


400
402
404
Network Header
Data Packet
406
408
412
MAC Header
IP Header
UDP Header
Data
Destination MAC address
Source MAC address
Length/type
Version
Header length
Type of service
Total length
Protocol
Checksum
Source IP address
Destination IP address
Source port number
Destination port number
UDP length
UDP checksum
420
422
Data Type
Data
Defines format for data
(length 1 byte)
01H = ID and Capabilities
02H - FFH = Res
00-F: UUID (16Bytes)
Unique Universal ID
01-01F: System Serial Number
20-25: IEEE Address
(MAC address)
26-2F: Ethernet Vdr & Sub VDR ID

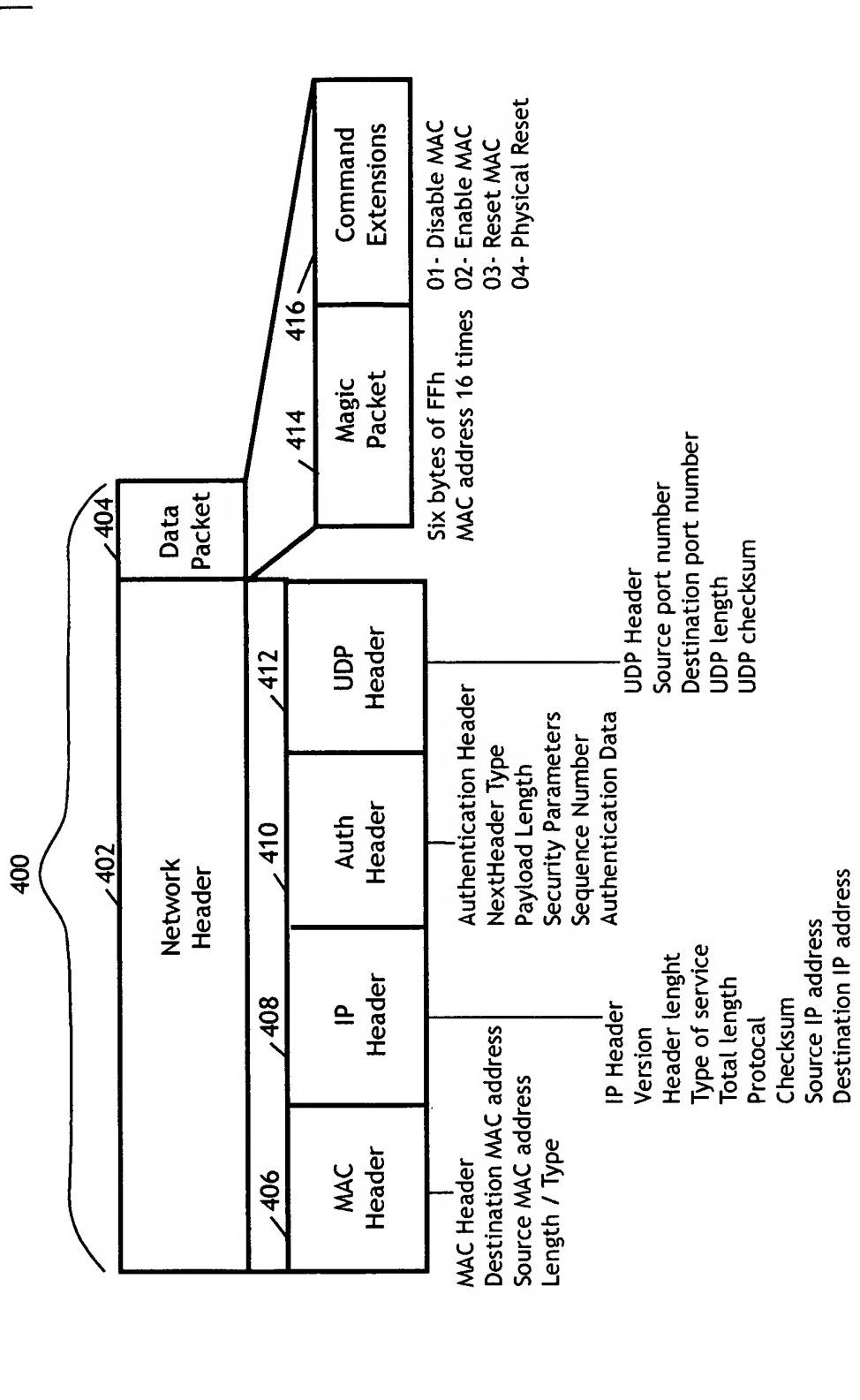

400
402
Network Header
404
Data Packet
406
MAC Header
408
IP Header
410
Auth Header
412
UDP Header
414
Magic Packet
416
Command Extensions
Six bytes of FFh
MAC address 16 times
01- Disable MAC
02- Enable MAC
03- Reset MAC
04- Physical Reset
MAC Header
Destination MAC address
Source MAC address
Length / Type
IP Header
Version
Header lenght
Type of service
Total length
Protocal
Checksum
Source IP address
Destination IP address
Authentication Header
NextHeader Type
Payload Length
Security Parameters
Sequence Number
Authentication Data
UDP Header
Source port number
Destination port number
UDP length
UDP checksum

FIG 5

FIG 6

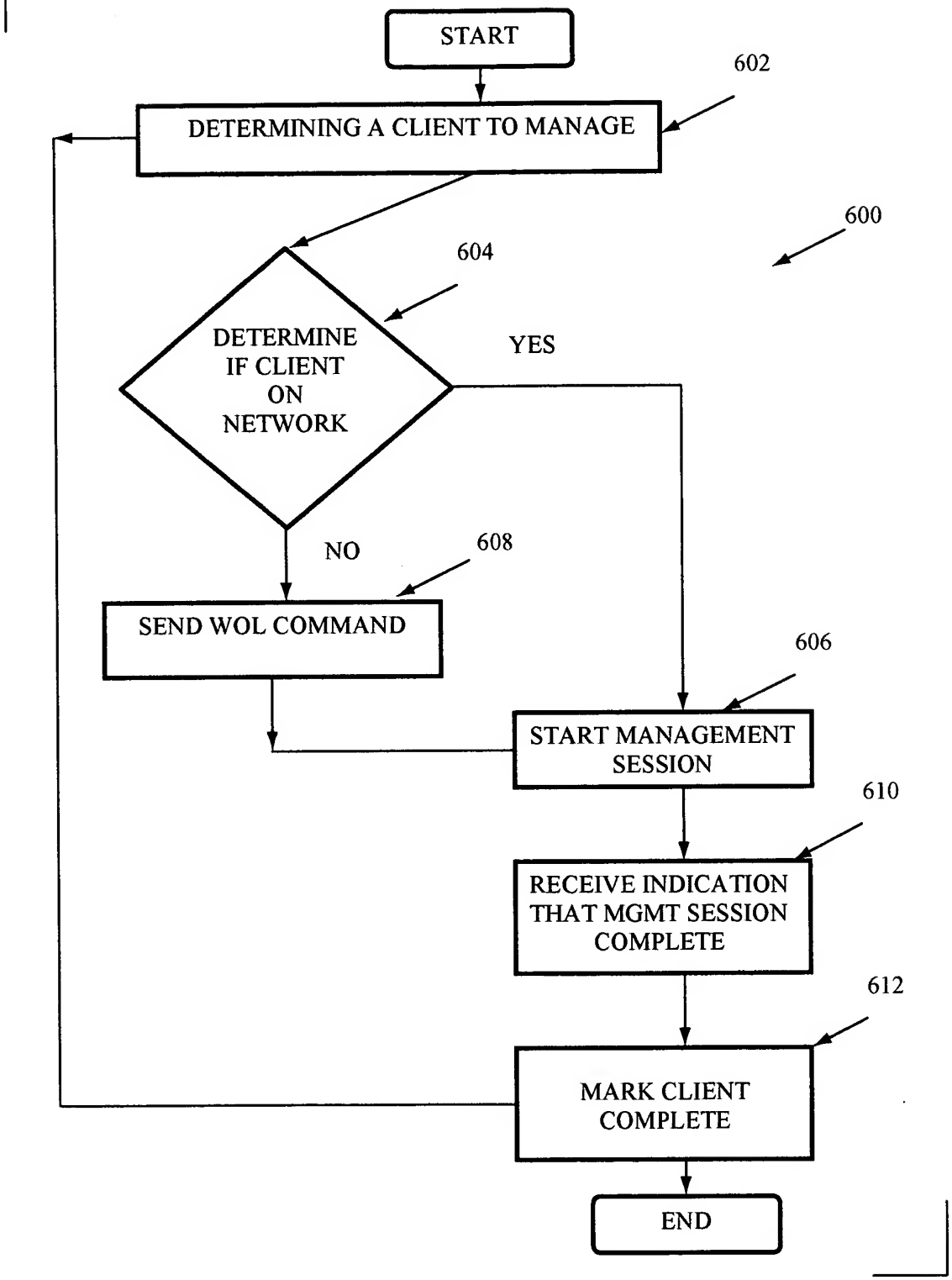
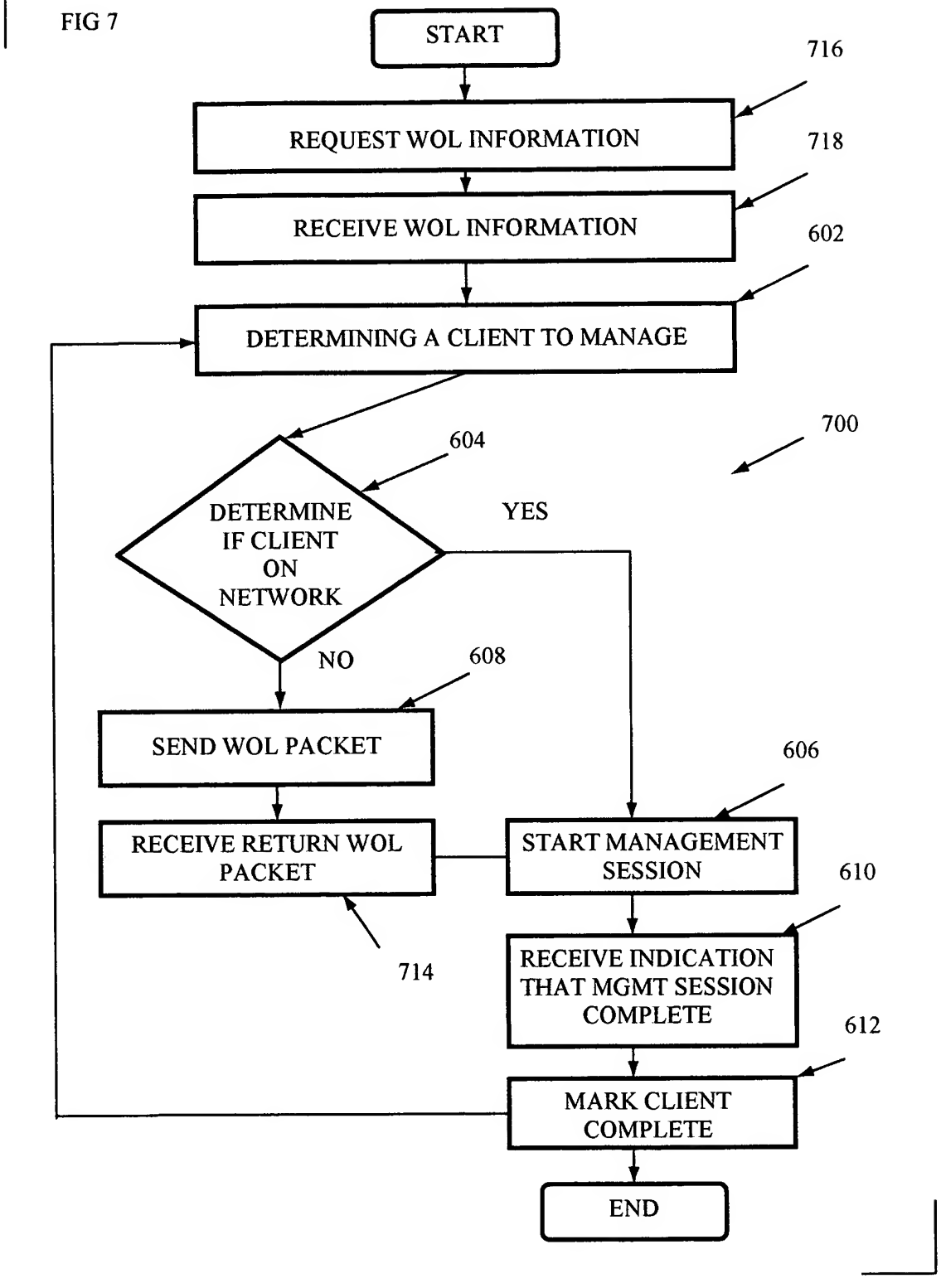

START
602
DETERMINING A CLIENT TO MANAGE
600
604
DETERMINE IF CLIENT ON NETWORK
YES
NO
608
SEND WOL COMMAND
606
START MANAGEMENT SESSION
610
RECEIVE INDICATION THAT MGMT SESSION COMPLETE
612
MARK CLIENT COMPLETE
END

FIG 7


START
716
REQUEST WOL INFORMATION
718
RECEIVE WOL INFORMATION
602
DETERMINING A CLIENT TO MANAGE
700
604
DETERMINE IF CLIENT ON NETWORK
YES
NO
608
SEND WOL PACKET
606
RECEIVE RETURN WOL PACKET
START MANAGEMENT SESSION
610
714
RECEIVE INDICATION THAT MGMT SESSION COMPLETE
612
MARK CLIENT COMPLETE
END

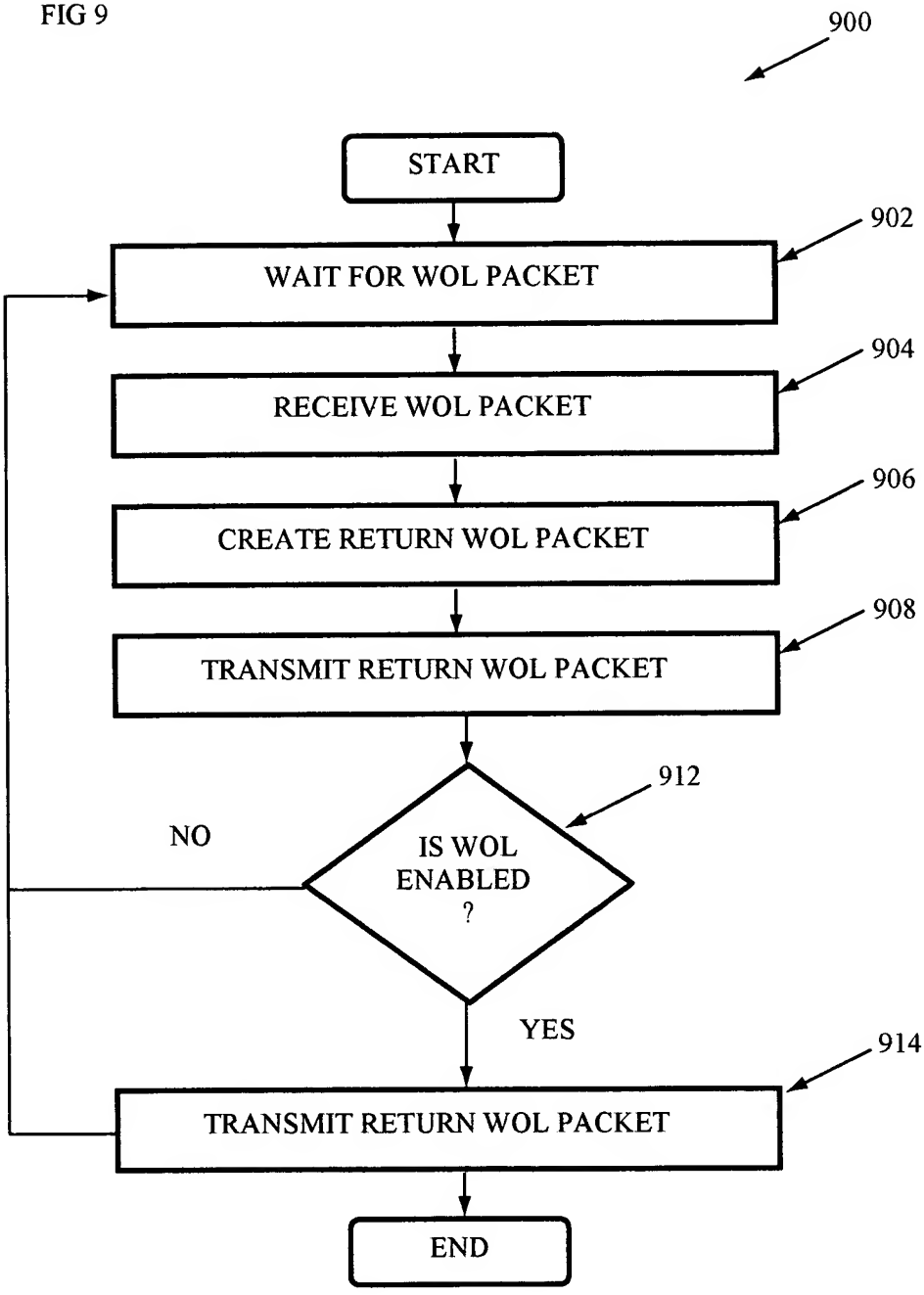
800

802 804 806 808 810

Clients to Manage	On Network	WOL Status	Client Able to be Managed	Update Status
	Yes/No	Enable/Disable	Yes/No	Yes/No/In Progress
1				
2				
3				
n				

FIG 8

FIG 9


900
START
902
WAIT FOR WOL PACKET
904
RECEIVE WOL PACKET
906
CREATE RETURN WOL PACKET
908
TRANSMIT RETURN WOL PACKET
912
IS WOL ENABLED ?
NO
YES
914
TRANSMIT RETURN WOL PACKET
END